

1                   **LISTING OF CLAIMS**

2                   Please amend the claims of the present application as set forth below. More  
3                   specifically, a detailed listing of all claims is provided below. This listing of claims will  
4                   replace all prior versions and listings of claims in the application. Changes to the claims  
5                   are shown by strikethrough or double brackets (for deleted matter) and underlining (for  
6                   added matter).

7                   By way of overview, claims 1-2, 4-15, 17-19, and 30-34 are currently pending.  
8                   The current status of all of the claims is identified as follows:

- 9                   a) Claims 1, 14, and 30 are currently amended;
- 10                  b) Claims 8-10, 12, 13, 15, 18, 31, 32, and 34 are original;
- 11                  c) Claims 2, 4-7, 11, 17, 19, and 33 were previously presented; and
- 12                  d) Claims 3, 16, 20-29, 35, and 36 are canceled without prejudice or disclaimer.

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14                   **Listing of Claims**

15                  1. (Currently amended) A method comprising:  
16                          accessing a computer program;  
17                          automatically identifying a set of one or more attributes of the computer program  
18                          with values that are to be input to the computer program by a user; and  
19                          creating code for one or more forms including selected ones of the set of one or  
20                          more attributes.

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22                  2. (Previously presented) A method as recited in claim 1, further comprising  
23                          generating a list including the set of one or more attributes and outputting the list.

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25                  3. (Canceled).

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2       4. (Previously presented) A method as recited in claim 1, wherein the one or more  
3 forms comprises one or more HyperText Markup Language (HTML) pages.

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5       5. (Previously presented) A method as recited in claim 1, wherein the one or more  
6 forms comprises one or more eXtensible Markup Language (XML) pages.

7  
8       6. (Previously presented) A method as recited in claim 1, wherein creating the one  
9 or more forms comprises generating a form definition for each form by:

10              identifying the selected one or more attributes to include on the form;  
11              creating a data input field for the form definition via which a user can  
12 subsequently input a value for the attribute; and  
13              creating a submit tag for the form definition via which the user can subsequently  
14 input a request to submit the values on the form to the computer program.

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16       7. (Previously presented) A method as recited in claim 1, wherein the computer  
17 program includes a plurality of interactions that each include one or more command  
18 definitions and one or more view definitions, wherein each command definition defines a  
19 command having various attributes and a behavior, wherein each view definition defines  
20 a view that is a response to a request, and wherein the creating comprises creating one  
21 form for each of the plurality of interactions.

22  
23       8. (Original) A method as recited in claim 1, further comprising:  
24              identifying a set of one or more outputs of the computer program; and  
25              outputting the set of one or more outputs.

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2       9. (Original) A method as recited in claim 8, wherein outputting the set of one or  
3 more outputs comprises generating a list including the set of one or more outputs and  
4 outputting the list.

5  
6       10. (Original) A method as recited in claim 8, wherein outputting the set of one or  
7 more outputs comprises creating one or more forms including selected ones of the set of  
8 one or more outputs.

9  
10      11. (Previously presented) A method comprising:

11           accessing a computer program, wherein the computer program includes a plurality  
12 of interactions that each include one or more command definitions and one or more view  
13 definitions, wherein each command definition defines a command having various  
14 attributes and a behavior, and wherein each view definition defines a view that is a  
15 response to a request; and

16           automatically identifying a set of one or more attributes of the computer program  
17 with values that are to be input to the computer program by a user wherein the  
18 automatically identifying comprises,

19           identifying, for each of the command definitions of each of the plurality of  
20 interactions, the methods of the command definition,

21           checking, for each identified method that sets a value, whether a corresponding  
22 identified method obtains the value, and

23           identifying, as an attribute of the set of one or more attributes, each attribute  
24 corresponding to a method that sets a value for the attribute for which there is no  
25 corresponding identified method that obtains the value for the attribute; and

1                   outputting an identification of the set of one or more attributes.

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3                   12. (Original) A method as recited in claim 11, wherein identifying the methods  
4                   of the command definition comprises querying the command definition to cause the  
5                   command definition to identify its own methods.

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7                   13. (Original) A method as recited in claim 11, further comprising identifying one  
8                   or more additional attributes that are not obtained by the computer program from  
9                   elsewhere and that cannot be input by the user.

10

11                  14. (Currently amended) A method comprising:

12                  accessing a computer program;

13                  automatically identifying a set of one or more outputs of the computer program;

14                  generating a list identifying the set of one or more outputs; and

15                  outputting the list,

16                  wherein the identifying and generating are performed based on an analysis of  
17                  computer program code, independent of execution of the computer program to provide  
18                  one or more views.

19

20                  15. (Original) A method as recited in claim 14, further comprising:  
21                  automatically identifying a set of one or more attributes of the computer program  
22                  with values that are to be input to the computer program by a user; and  
23                  outputting an identification of the set of one or more attributes.

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25                  16. (Canceled).

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2       17. (Previously presented) A method as recited in claim 14, further comprising  
3 creating one or more forms including selected ones of the set of one or more outputs.

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5       18. (Original) A method as recited in claim 14, wherein the computer program  
6 includes a plurality of interactions that each include one or more view definitions,  
7 wherein each view definition defines a view that is a response to a request; and

8              wherein the automatically identifying comprises,  
9              identifying, for each of the view definitions of each of the plurality of  
10 interactions, the methods of the view definition,  
11              identifying, as one of the set of one or more outputs, each output included in one  
12 of the identified methods.

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14       19. (Previously presented) A method as recited in claim 14, wherein the computer  
15 program includes a plurality of interactions that each include one or more command  
16 definitions and one or more view definitions, wherein each command definition defines a  
17 command having various attributes and a behavior, wherein each view definition defines a  
18 view that is a response to a request, wherein the method further comprises creating a  
19 form for each of the plurality of interactions, and wherein each form includes one or more  
20 outputs for the corresponding one of the plurality of interactions.

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22       20-29. (Canceled).  
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1       30. (Currently amended) One or more computer-readable media comprising  
2 computer-executable instructions that, when executed, direct a processor to generate a  
3 plurality of input forms and output forms for a computer program by:

4             accessing the computer program to identify operations in the computer program  
5 that load attribute values and set attribute values;

6             analyzing the identified operations to determine one or more user inputs to the  
7 computer program;

8             automatically generating code for one or more input forms to allow a user to input  
9 at least some of the one or more user inputs;

10            accessing the computer program to identify one or more outputs of the computer  
11 program; and

12            automatically generating code for one or more output forms to present the outputs  
13 of the computer program.

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15        31. (Original) One or more computer-readable media as recited in claim 30,  
16 wherein the computer-executable instructions further direct the processor to:

17            generate a list identifying the one or more user inputs to the computer program  
18 and another list identifying the one or more outputs of the computer program; and

19            output the lists.

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21        32. (Original) One or more computer-readable media as recited in claim 30,  
22 wherein generating the one or more input forms comprises generating a form definition  
23 for each form by:

24            identifying the selected one or more user inputs to include on the form;

1 creating data input fields for the form definition via which a user can  
2 subsequently input a value for the user inputs; and

3 creating a submit tag for the form definition via which the user can subsequently  
4 input a request to submit the values on the form to the computer program.

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6 33. (Previously presented) One or more computer-readable media as recited in  
7 claim 30, wherein the computer program includes a plurality of interactions that each  
8 include one or more command definitions and one or more view definitions, wherein  
9 each command definition defines a command having various attributes and a behavior,  
10 and wherein each view definition defines a view that is a response to a request; and

11 wherein accessing the computer program to identify operations in the computer  
12 program that load attribute values and set attribute values, and analyzing the identified  
13 operations, comprises,

14 identifying, for each of the command definitions of each of the plurality of  
15 interactions, the methods of the command definition,

16 checking, for each identified method that sets a value, whether a corresponding  
17 identified method obtains the value, and

18 identifying, as one of the one or more user inputs, each attribute corresponding to  
19 a method that sets a value for the attribute for which there is no corresponding identified  
20 method that obtains the value for the attribute.

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22 34. (Original) One or more computer-readable media as recited in claim 30,  
23 wherein the computer-executable instructions further direct the processor to identify one  
24 or more attributes of the computer program that are not obtained by the computer  
25 program from elsewhere and that cannot be user inputs.

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2       35-36. (Canceled).  
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